

State Agency Waste Management Annual Report for

California Department of Transportation, District 5 (361)
2003 - Annual Report

Annual Report Summary -

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Part I

State Agency Name: California Department of Transportation, District 5
Address: 50 Higuera Street San Luis Obispo, CA 93401
Director: Gregg Albright
Title: District Director
Recycling Coordinator: Tony Bessermin
Address: 50 Higuera Street San Luis Obispo, CA 93401
Work Phone: (805) 549-3119 Ext: 0
Fax Number: (805) 549-3639
Email Address: tony_bessermin@dot.ca.gov
Total Employees: 750
Total Vistors, inmates, etc : 14,540

Part II

Verified	District Office-San Luis Obispo 50 Higuera Street San Luis Obispo, CA 93401 Number of Employees: 185	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Right of Way Building 3232 S. Higuera Street, Suite 200 San Luis Obispo, CA 93403 Number of Employees: 20	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Atoll Building 1150 Laurel Lane San Luis Obispo, CA 93401 Number of Employees: 169	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Big Sur Maintenance Station Highway 1, Big Sur State Park Big Sur, CA 93920 Number of Employees: 5	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Buellton Maintenance Station 721 Jonata Park Road Buellton, CA 93427 Number of Employees: 11	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Cambria Maintenance Station 3130 Highway 46	Tony Bessermin 50 Higuera Street San Luis Obispo,

	Cambria, CA 93428 Number of Employees: 9	CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Cambria RE Office 775 Arlington Street Cambria, CA 93428 Number of Employees: 5	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Cuyama Maintenance Station 6470 Highway 166 New Cuyama, CA 92354 Number of Employees: 4	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Shop 05 66 Madonna Road San Luis Obispo, CA 93401 Number of Employees: 19	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Hollister Maintenance Station 771 N. Chappell Road Hollister, CA 95023 Number of Employees: 6	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	King City Maintenance Station 850 S. First Street King City, CA 93930 Number of Employees: 8	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Monterey Maintenance Station 2111 Garden Road Monterey, CA 93940 Number of Employees: 13	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Salinas Maintenance Station 850 Elvee Drive Salinas, CA 93901 Number of Employees: 37	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	San Luis Obispo Maintenance Station 50 Higuera Street San Luis Obispo, CA 93401 Number of Employees: 65	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Santa Barbara Maintenance Station 3999 State Street Santa Barbara, CA 93105 Number of Employees: 40	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Santa Barbara RE Office 22 N. Milpas Street, Suite G & H Santa Barbara, CA 93103 Number of Employees: 12	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Santa Cruz Maintenance Station 195 Capitola Road Extension Santa Cruz, CA 95062 Number of Employees: 44	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov

Verified	Santa Maria Maintenance Station 2201 S. Thornburg Santa Maria, CA 93455 Number of Employees: 16	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Shandon Maintenance Station 444 W. Centre Street Shandon, CA 93461 Number of Employees: 7	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Templeton Maintenance Station 640 N. Main Templeton, CA 93465 Number of Employees: 22	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Atascadero RE Office 7040 El Camino Real Atascadero, CA 93422 Number of Employees: 7	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Santa Maria RE Office 2255 S. Broadway, Suite 10 Santa Maria, CA 93455 Number of Employees: 14	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	San Luis RE Office 4485 Vachell Lane San Luis Obispo, CA 93401 Number of Employees: 4	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Paso Robles RE Office 1332 Vendels Circle, Suite 101 Paso Robles, CA 93446 Number of Employees: 7	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Prunedale RE Office 3075 Executive Drive Prunedale, CA 93907 Number of Employees: 8	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Verified	Willow Springs Maintenance Station Higway 1, 1/4 mile North of Gorda Big Sur, CA 93920 Number of Employees: 13	Tony Bessermin 50 Higuera Street San Luis Obispo, CA 93401 Phone: (805) 549-3119 Ext: 0 Fax: (805) 549-3639 Email: tony_bessermin@dot.ca.gov
Total Employees: 750		

Part III Section 1

Summary of program information entered to date.

Diversion Calculations

Program	Existing	Planned/ Expanding	Tons
Business Source Reduction	X		0.660

Material Exchange	X		3.985
Beverage Containers	X		0.063
Glass	X		0.660
Office Paper (mixed)	X		48.190
Plastics	X		0.014
Special Collection Events	X		1.430
Xeriscaping, grasscycling	X		0.924
Scrap Metal	X		46.800
Wood waste	X		1.800
Concrete/asphalt/rubble (C&D)	X		30,931.000
Total Tonnage Diverted			31,035.526
Total Tonnage Disposed			193.680
Total Tonnage Generated			31,229.206
Overall Diversion Percentage (Tonnage Diverted / Tonnage Generated)			99.4%

Hazardous Materials (Programs not included in calculations)				
Program	Existing	Planned/ Expanding	Tons	
Batteries	X		(0.612)	
Other Hazardous Waste	X		(0.028)	

Part III Section 2

This section of the annual report presents the methods in which your agency informed both employees and customers served that a recycling program was being implemented. Below are identified the programs you reported were continued or implemented during 2003.

No Data on File For Part III Section 2

Part III Section 3

Procurement Activities Implemented in 2003

This section of the annual report presents your compliance with the State Agency Buy Recycled Campaign (SABRC). The activities identified below were reported as implemented or continued during 2003. (Note: Completing this section does not meet the [SABRC reporting requirements](#) (PCC Section 12162(b)).

No Data on File For Part III Section 3

Part IV

1. **Is the mission statement of the State agency/large State facility the same as reported in the previous year?**
Yes

If No, what is the new mission statement?

2. **How has the waste stream (i.e. those materials disposed in landfills) changed since the Integrated Waste Management Plan was submitted? (Changes include kinds and quantities of materials disposed in landfills.)**

We continue to use remanufactured modular furniture for office moves. This significantly reduces old modular furniture from going to the dump. The "RSI" company refurbishes the old modular furniture and sells it inexpensively.

3. **Summarize what [waste diversion programs](#) were continued or newly implemented in 2004.**

Material exchange was very effective again this year due to the amount of employees we relocated.

4. **How were the tonnages determined for the materials disposed and**

diverted? (e.g. waste assessments, per capita generation and extrapolation, actual disposal weights, or actual recycling weights)

Extrapolation and actual disposal and recycling weights were used to determine the tonnages.

5. **What types of activities are included in each of the reported programs? (The following link of [category definitions](#) may assist you in answering this question.)**

District 5's program consists of: Business source reduction, material exchange, beverage containers, glass, mixed paper, collection of telephone books as a special event, grasscycling, scrap metal from guardrails, and wood waste consisted of brush and wood chipping used as mulch.

6. **Has the State agency/large State facility adopted or changed its waste reduction policy?**
No

If Yes, what is the new waste reduction policy?

7. **What resources (staff and/or funds) did the State agency/large State facility commit toward implementing its Integrated Waste Management Plan in 2004 to help meet the waste diversion goals?**

Staff time was used to research and prepare this report.

Part IV Miscellaneous

8. AB 75 2003 report disposal figures

Caltrans District 5, San Luis Obispo.

Compiled by Tony Bessermin.

Part III, Section 1: Program Activities.

DIVERSION PROGRAMS

Source Reduction

Business Source Reduction jV .66 tons

Toner - .26 ton.

„h 4 various toner cartridges recycled a week.

„h Average weights 2.5 pounds. $2.5 \text{ pounds} \times 4 = 10 \text{ pounds}$

„h 10 pounds a week times 52 weeks = 520 pounds a year.

„h 520 pounds divided by 2000 lb. = .26 tons.

Information from Mike Gonzales - 50 Higuera, San Luis Obispo warehouse manager.

Reusable Cardboard boxes jV .4 ton

„h We reused 800 packing boxes during our 20 Higuera (40 employee) moves.

„h 800 boxes x one pound each = 800.

„h 800 divided by 2000 lb. = 0.4 ton

Material Exchange ;V 4.33 tons

Non Profit/ school donations ;V .495 tons a year

„h 9 Bookcases @ 110/pounds = 990 divided by 2000 = .495 ton.

Information from Forrest Robertson our Property Controller.

Property reutilization: - 2.275 tons a year

„h Metal desks @ 110 pounds each times 4 metal desks = 440

„h Divided by 2000 pounds = .22 tons.

Mark Mueller Cambria Maintenance Supervisor said that 25% of its surplus materials were reused at the Cambria surplus yard = 2.5 tons estimate.

Resident Engineers on construction projects reuse approximately 15% of the surplus construction materials located at our Cambria surplus yard.

„h Special crews department reused approximately 10% of the surplus bridge materials located at our Cambria surplus yard.

Computers: - 1.56 tons a year

Surveyed computer equipment: donated to local area school districts. Information from Diane Leon - IT department and Forrest Robertson - Property Controller.

Computers equipment X Pounds = weight divided by 2000 lb. = tons.

@ Weight Pounds Tons

„h 23- computer monitors, 30 690 .345

„h 74- CPU's, 26 1,925 .962

„h 2- printers, 25.33 50 .025

„h 7- fax 30 210 .105

„h 9- laptop 10 90 .0253

„h 1- copiers, 50 50 .105

„h 1- server 35 35 .02

„h 2- wireless Ethernet 20 40 .02

„h 1- modem 5 5 .0175

„h 2- power surge .5 1.0 .0005

Total: 3,120.66 1.56 tons

Recycling

Beverage Containers (aluminum cans) iV .063 ton.

Beverage containers: bottles, cans, and plastic with California redemption value are recycled at all of our district office locations.

Aluminum cans iV 0.063

„h 10 cases per month. 24 cans/case

„h 240 cans @ 0.7 oz. each = 168 oz.

„h 168 oz. divided by 16 oz. = 10.5 pounds.

„h 10.5 pounds x 12 months = 126 pounds

„h 126 pounds divided by 2000 lb. = 0.063 ton.

Glass soda bottles iV 0.66

„h 5 cases per month. 22 pounds per case = 110 pounds

„h 110 pounds x 12 months = 1,320 pounds/year,

„h 1,320 divided 2000 lb. = 0.66 tons tons/yr.

Plastic water bottles - 0.014

and juice bottles iV 15 cases per month.

„h 15 cases x 24 cans = 360 cans @ .12 oz each. = 42.2 oz.

„h 42.2 oz. divided by 16 oz. = 2.7 pounds

„h 2.7 pounds x 12 months = 468 oz

„h 468 oz divided by 16 oz. = 29.25 pounds.

„h 29.25 divided by 2000 lb. = 0.014 ton.

Cardboard/mixed paper/office paper/newspaper - 48.19 tons

The 50 Higuera schedule for San Luis Garbage trash/recycle pickups:

„h Commingled paper/cardboard - 3 yard recycling dumpster is picked up at 5:30 am on Tuesdays, Wednesdays, and Fridays. (3x/wk).

„h One cubic yard of commingled cardboard: Flattened and loose weighs about 300 lbs. One cubic yard = 27 cubic feet = 46,656 cubic inches.

A three yard dumpster 100% full would weigh an average of 900 pounds. A three

yard dumpster 40% full would weigh an average of 310 pounds.

„h Picked up 3 times @310 pounds/week = 930 pounds

„h 930 pounds x 51 weeks/year = 47,430. Divided by 2000 = 23.71 tons.

Three yard dumpster for office paper is dumped 3 x weekly. It costs \$52.31/month x 12 months = \$627.72 trip fees per year.

The 66 Madonna Road (shop-5) pick up schedule for San Luis Garbage is on Tuesday and Friday.

A four-yard recycling dumpster 100% full would weigh an average of 1,200 pounds. A four yard dumpster 40% full would weigh an average of 480 pounds.

„h Picked up 2 times/week = 960 pounds x 51 weeks/year = 48,960. Divided by 2000 = 24.48 tons. It costs \$185/month x 12 months = \$2,228.88/year disposal fees.

\$2,573.12 in annual savings from recycling

\$2,573.12 in annual savings from recycling: Caltrans District 5 recycles nearly 48.19 tons of commingled corrugated boxes/paper per year.

„h 48.19/tons x \$48/ton dump fee = \$2,313. Two 40 yard trip fees = \$260.

Total savings/year = \$2,573.12.

This saves the Caltrans \$2,573.12 in annual avoided disposal costs.

Trash 193.68 tons a year.

Trash 4 yard dumpster:

* A four-yard dumpster 40% full would weigh an average of 480 pounds.

Picked up 2 times/week = 960 pounds x 51 weeks/year = 48,960. Divided by 2000 = 24.48 tons trash.

„h 50-H. trash is picked up daily. 5/days x 480* pounds = 2,400 pounds or 1.2 tons/week. 1.2 tons x 51 weeks = 61.2 tons of trash/year. It costs \$405.49/month disposal fees. \$405.49 x 12 months = \$4,865.88/year disposal fees.

„h Soils lab trash is picked up on Tuesdays & Fridays. (2x/wk). 2 x 480 pounds = 960 x 51 weeks = 48,960 pounds or 24.48 tons of trash/year. It costs \$185.74/month x 12 months = \$2,228.88/year disposal fee.

24.48 (50H/4yd) + 61.2 (Soils lab/4yd) = 85.68 total tons/year of trash.

It costs \$185/month x 12 months = \$2,228.88/year disposal fees.

Trash 40-Yard trash drop box is picked up when called in by Dave Fry,

San Luis Obispo Maintenance Supervisor.

(Approximately every once/twice a month, 18 times a year).

Coastal Rolloff Service picks up our 40 yard maintenance dumpster. It costs \$48/ton plus a \$130 trip charge. It doesn't get emptied until it is completely full.

„h 40 yards x 300 pounds = 12,000 pounds. Divided by 2000 = 6 tons.

„h 6 tons x \$48 = \$288 + \$130 trip charge = \$418 per dump.

Dave Fry, San Luis Obispo Maintenance Supervisor says it is picked up an average of 18 times per year.

„h 6 tons x 18 = 648 tons of trash disposal/year. \$48/ton x 648 tons = \$31,104 dump fees/year. 18 trip charges x \$130 = \$2,340/trip charges per year. \$2,340/trip + = \$31,104 dump fees = Total of \$34,444/year.

TRASH: 24.48 + 648 tons = 672.48 tons trash/year at our 50 Higuera San Luis Obispo District Office complex.

Coastal Rolloff annual cost: \$34,484.

San Luis Garbage annual cost \$7,722.48.

\$34,484. + \$7,722 = \$42,206 total disposal fees per year.

Special collection events - Telephone books jV 1.43 tons.

We recycled approximately 600 San Luis Obispo telephone books.

„h They weigh 3 lb. 2.1 oz each. 600 x 50.1 oz. = 30,060 oz.

„h 30,060 oz divided by 16 oz. = 1,878.75 pounds

„h 1,878.75 pounds divided by 2000 = 0.93 ton.

We recycled 475 State telephone directories. They weight 2 lb. 1.7 oz each.

„h 2 lb. 1.7 oz = 33.7 oz ,

„h 475 x 33.7 oz. = 16007.5 oz. Divided by 16 oz. = 1,000.46 pounds

„h 1,000.46 pounds divided by 2000 = 0.5 ton.

Composting

Self-Haul green waste (hailed to composting site) - .924 tons

„h Contracted Groundskeeper mows 0.6 acre of lawn. They haul the grass clippings to the greenwaste bin.

„h Contracted Groundskeeper rakes .54 acre of flowerbeds and takes to the greenwaste bin.

„h 0.6 + .54 = 1.14 acres.

„h 1.14 acre x 52 weeks = 59.28 acres. 59.28 x 31.2 pounds average weight per acre = 1,849.53 pounds

„h 1,849.53 divided by 2000 = .924 tons

Special Waste Materials

Scrap Metal iV 46.8 tons a year.

Guard rail:

„h i\$Thriej'' Beam weighs 150 pounds for a 12 foot 6 inch beam. Damaged rail is cut into three pieces for scrap. Thrie beam is used in center dividers. It is the most commonly damaged rail.

„h i\$Wij'' beam weighs 75 pounds for a 12 foot 6 inch beam. Damaged rail is cut into two pieces for scrap. i\$Wij'' beam is used on the right side off ramps and edge. It is seldom damaged.

At the San Luis Obispo, Santa Maria, and Santa Barbara Maintenance yards, there is an average of twelve beams disposed every six weeks.

12 times 150 pounds = 1,800 pounds every six week per maintenance yard. There are six maintenance yards: Santa Barbara, Santa Maria, San Luis Obispo, Templeton, Salinas, and Santa Cruz that have open bays for scrap metal disposal.

6 times 1,800 pounds = 10,800. 52 weeks/year divided by 6 weeks = 8.66.

8.66 times 10,800 = 93,600 pounds divided by 2000 = 46.8 tons a year.

Metal scrap dealers recycle this metal. Metal bin is 600 cubic feet average.

At our Cambria Maintenance/surplus materials yard approximately:

„h 5% metal scrap is disposed at the dump.

San Luis Maintenance Yard has temporarily (2004) discontinued the metal salvage bin. There will be 5.4 tons of salvage less per year. Dave Fry, San Luis Obispo Maintenance Supervisor has discontinued the metal bin due to misuse. He said that people/employees were dumping home refrigerators, AC units, washers, stoves etc. This created hazardous waste (Freon). So to discontinue this practice he stopped the metal salvage bin.

Wood Waste iV 1.8 tons

Brush/wood waste chipping is used 100% for mulch. Linda Hamel our former Landscape supervisor is now the region maintenance superintendent. She said that landscape & tree crews were very short staffed this year. The equipment operators; etc. were shifted to other maintenance positions. The tree crew supervisor retired and two crewmembers shifted to other positions. The average month recycled 1 truckload of chips. The truck averaged about 300 pounds per load. 300 pounds times 12 months = 3600 pounds a year divided by 2000 = 1.8 tons. None goes to green waste; it is used as mulch in flowerbeds.

Hazardous Waste Materials

Batteries - .612 ton.

„h We have 36 battery recycling containers specifically for used small batteries. They are checked monthly. When full they weigh approximately 17 pounds.

„h All containers are picked up approximately twice a year.

„h $36 \times 2 = 72$ dumps. $72 \times 17\text{lbs} = 1,224$ pounds divided by 2000 = 0.612 ton.

Other Hazardous Waste ;V 0.028

Fluorescent bulbs ;V 0.028 ton.

„h 50 eight foot bulbs to recycler.

„h $50 \times 1 \text{ lb. } 2 \text{ oz. } (18 \text{ oz.}) = 900$ ounces

„h 900 divided by 16 oz. = 56.25 pounds

„h 56.25 divided by 2000 lb. = 0.028 ton.

